



**NTSB** National Transportation Safety Board

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# Most Wanted Transportation Safety Improvements

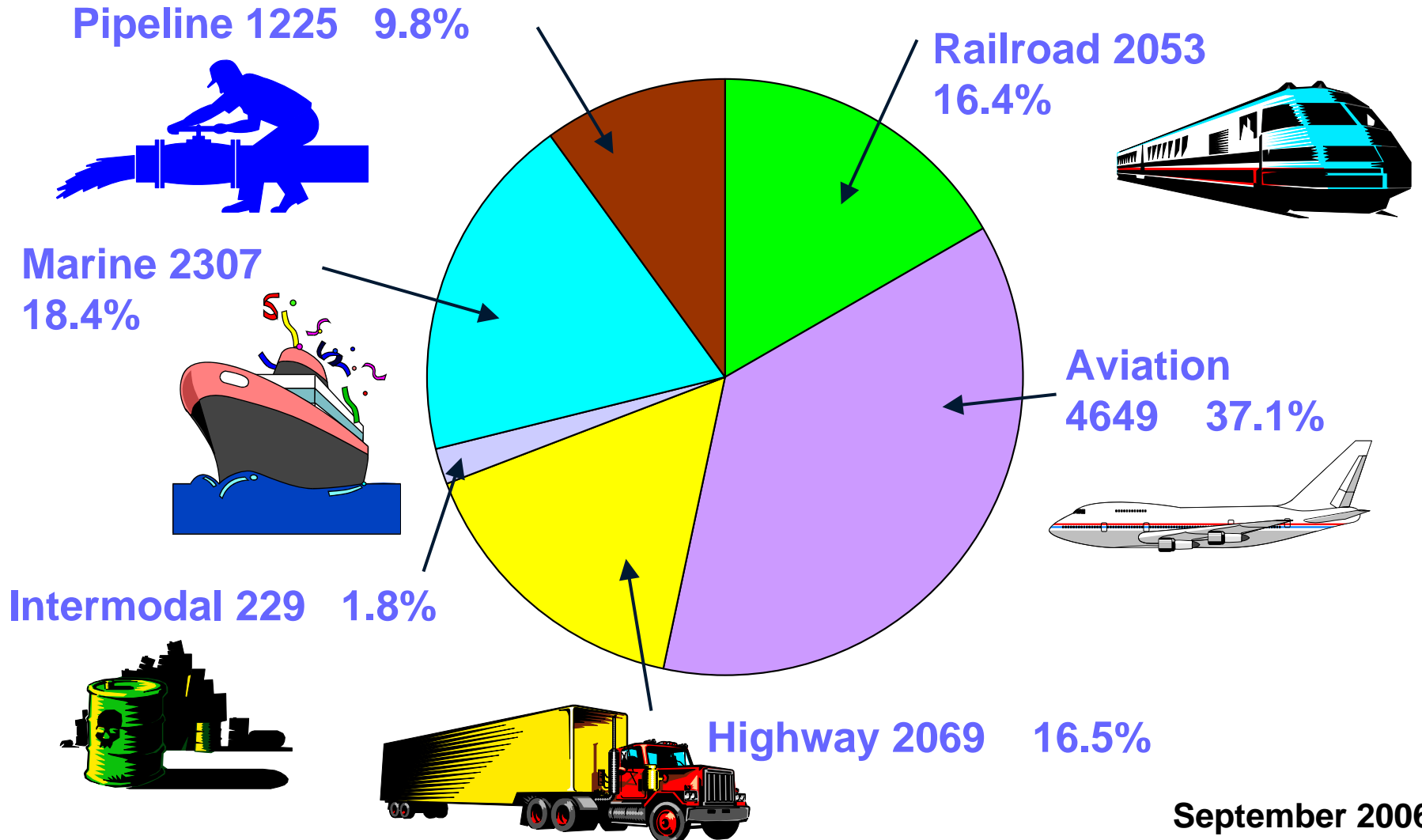
“...a program to increase the public’s awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives.”

September 6, 2006

# Safety Recommendations

Issued Since 1967

TOTAL = 12,532



September 2006



# NTSB **MOST WANTED**

Transportation Safety Improvements

## All Open Recommendations: **859**

- Aviation: 368
- Highway: 264
- Railroad: 101
- Marine: 77
- Pipeline: 32
- Intermodal: 17



# NTSB **MOST WANTED**

Transportation Safety Improvements

## Open State Recommendations: **30**

- Highway: 20
- Marine: 9
- Aviation: 1



## Safety Recommendation Issue Areas Selected for Intensive Follow-up and Heightened Awareness

- Will impact or enhance safety of the national transportation system
- Have a high level of public visibility or interest
- Will benefit from a special form of encouragement



# NTSB **MOST WANTED**

Transportation Safety Improvements

## Current Number of Safety Recommendations on Most Wanted List

Listed by Recipient

Recipient	No. of Recs.
Sec. DOT	1
FAA	20
FMCSA	10
FHWA	0
NHTSA	4
PHMSA	1
FRA	1
USCG	9
<b>Total Federal</b>	<b>46</b>

Recipient	No. of Recs.
States	9
<b>Total State</b>	<b>9</b>

**Grand Total:  
55 Recommendations**



# **NTSB MOST WANTED**

Transportation Safety Improvements

## **Existing List**

**Improve Child Occupant Protection**

**Enact Primary Seat Belt Enforcement Laws**

**Promote Youth Highway Safety**

**Eliminate Hard Core Drinking Driving**

**Improve School Bus/Grade Crossing Safety**

**Enhance Recreational Boating Safety**





## Advocacy Division Staff

Kevin Quinlan, Chief

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# NTSB **MOST WANTED**

Transportation Safety Improvements



## Improve Child Occupant Protection

*"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."*



# Improve Child Occupant Protection

- Motor vehicle injuries are the leading cause of death for children.
- From 1996 through 2005, more than 3,800 child occupants (ages 4 to 8) died.
- More than 85% were unrestrained or improperly restrained.



# Improve Child Occupant Protection

## Child Booster Seat Laws

### H-96-14 Booster Seat Use

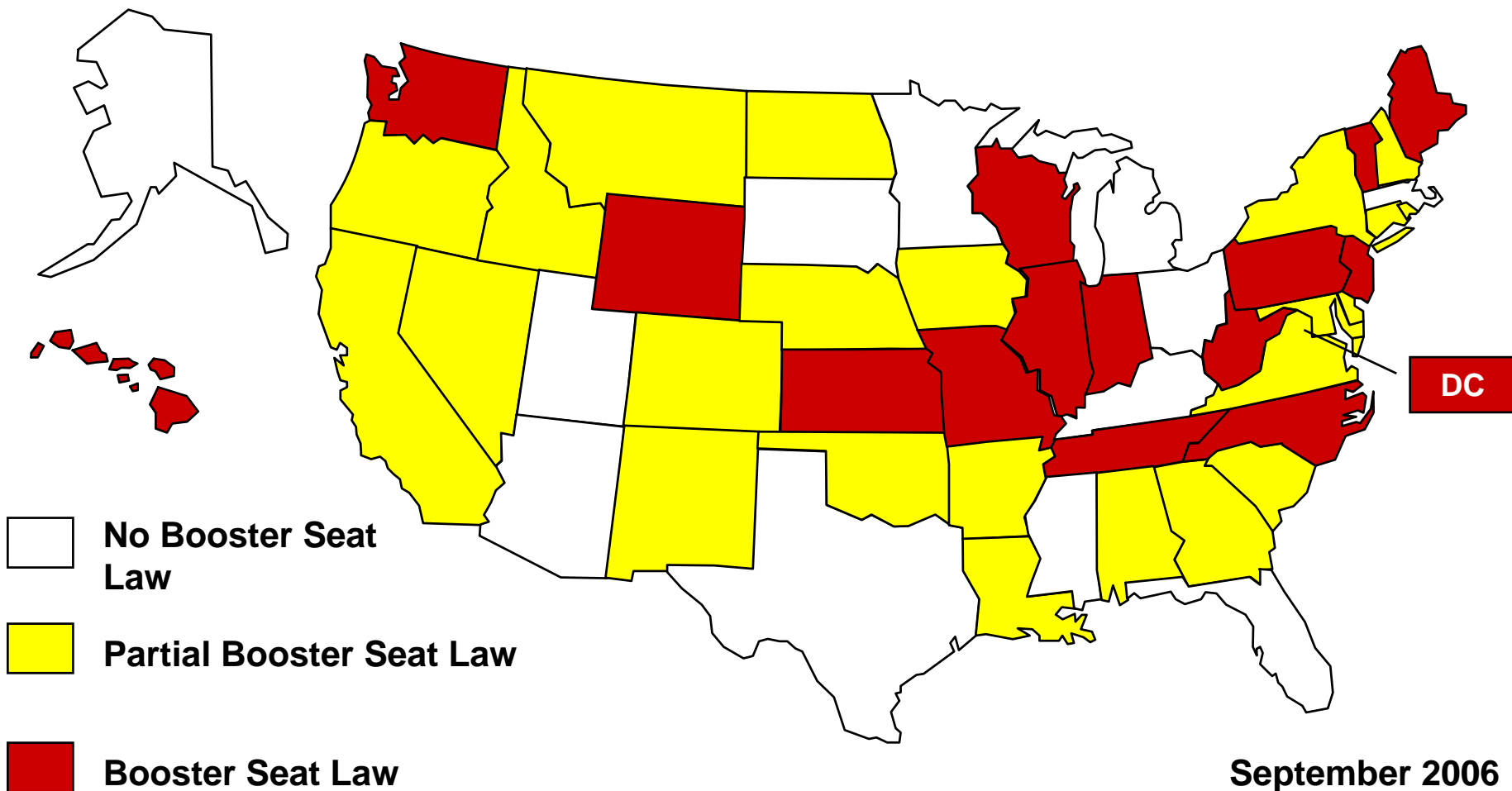




# NTSB **MOST WANTED**

Transportation Safety Improvements

## Child Booster Seat Laws

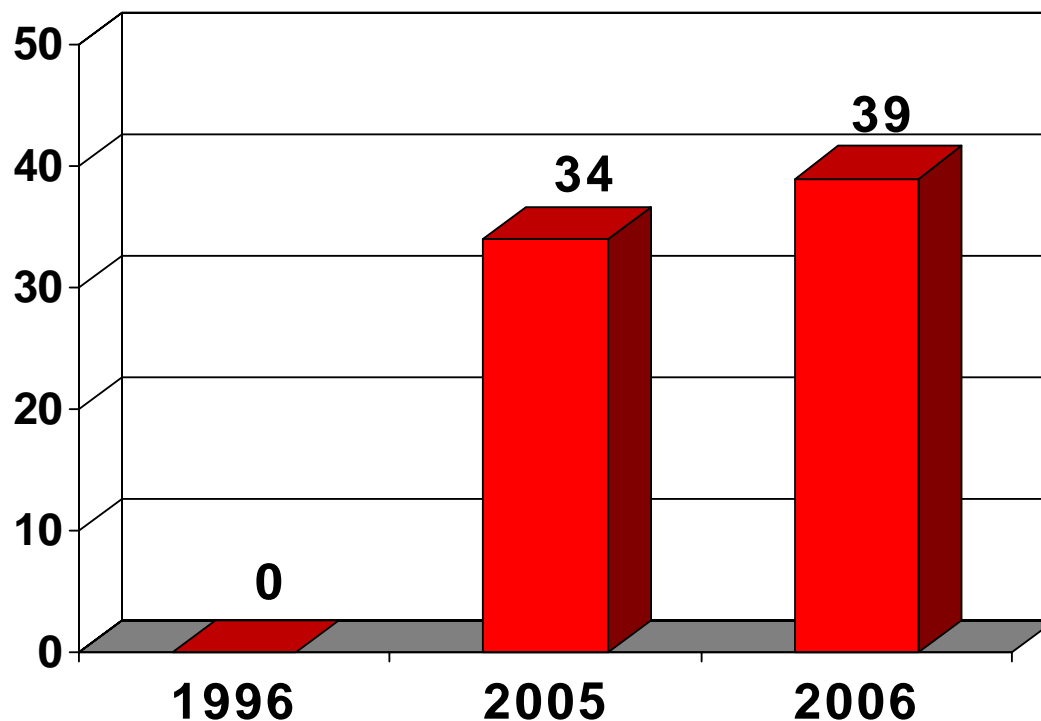




# NTSB **MOST WANTED**

Transportation Safety Improvements

## Booster Seat Law Progress





# Improve Child Occupant Protection Laws

## Proposed Action on this Issue Area

- Reclassify H-96-14 as proposed:
  - Closed–Acceptable Action for 4 States (HI, KS, MO and WI)
  - Open–Acceptable Response for Alabama
  - Open–Acceptable Alternate Response for 2 States (AZ and OH)
  - Open–Unacceptable Response for Florida
- Vote to keep *Improve Child Occupant Protection* on the Most Wanted list



# NTSB **MOST WANTED**

Transportation Safety Improvements

## Enact Primary Seat Belt Enforcement Laws



*"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."*





## Seat Belts Save Lives

- Lap/shoulder belts reduce the risk of fatal injury to front seat occupants by 45%.
- 15,434 lives were saved by seat belts in 2004.
- An additional 5,839 lives could have been saved if all occupants had used belts.
- Seat belt use rate nationwide is about 82%.

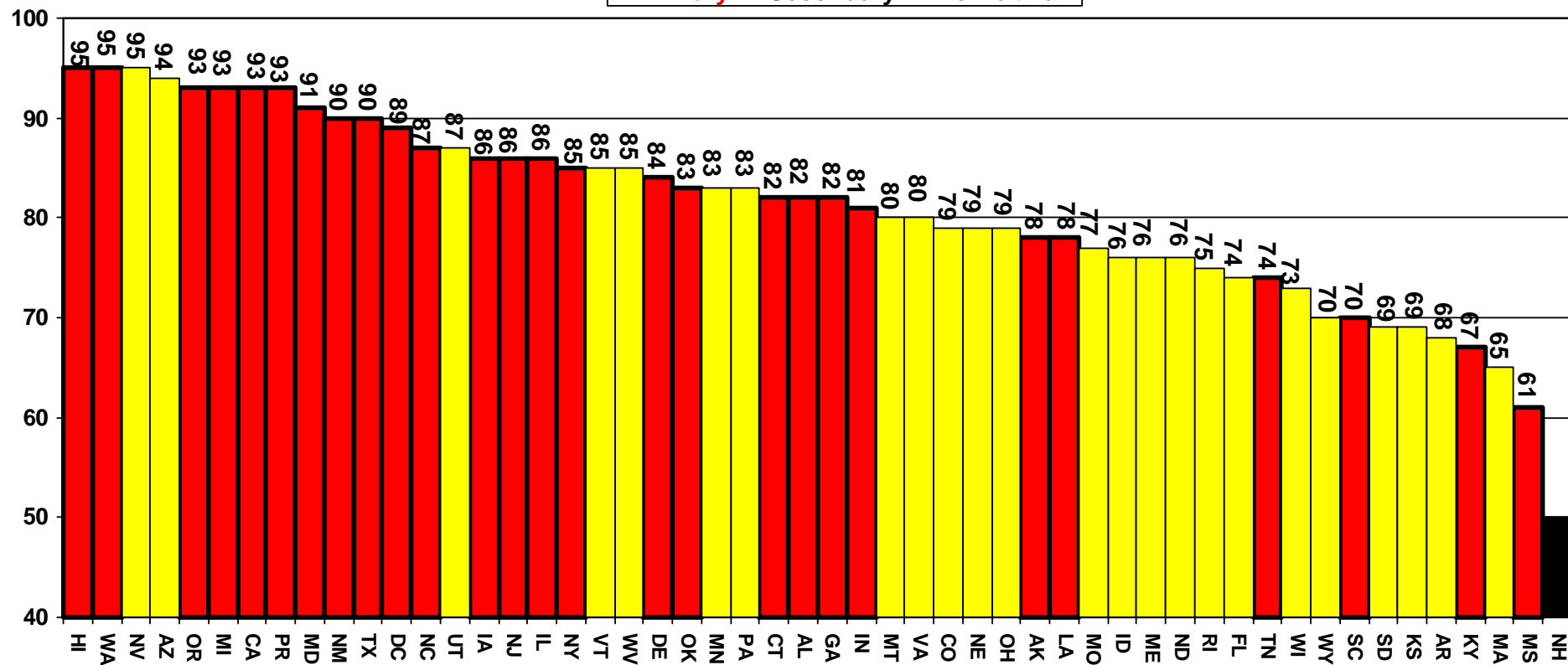


# NTSB MOST WANTED

Transportation Safety Improvements

## Belt Use Rates in Primary & Secondary States—2005

■ Primary ■ Secondary ■ No Belt Law



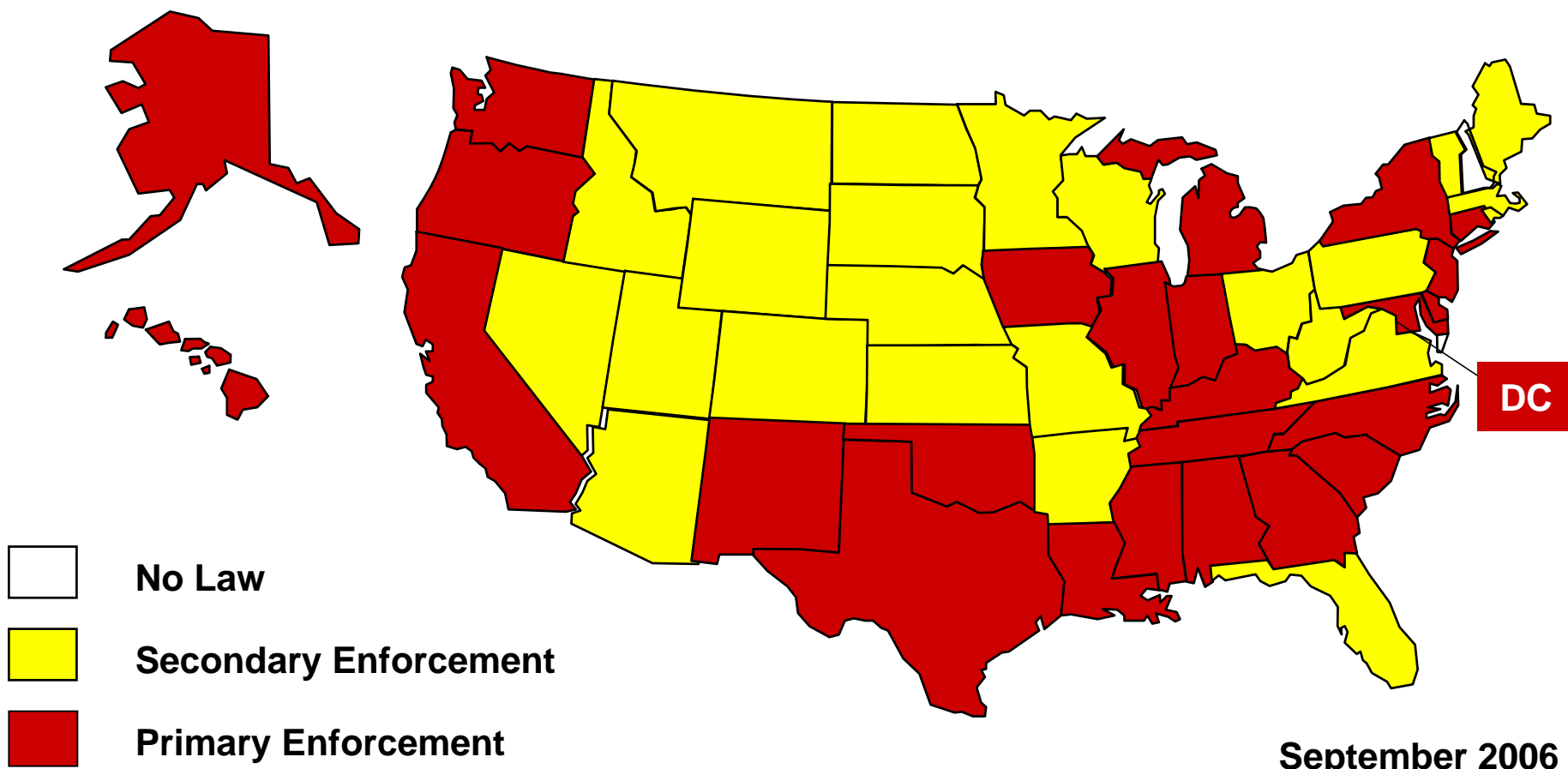
“... a program to increase the public’s awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives.”



# NTSB **MOST WANTED**

Transportation Safety Improvements

## Primary Seat Belt Enforcement Laws

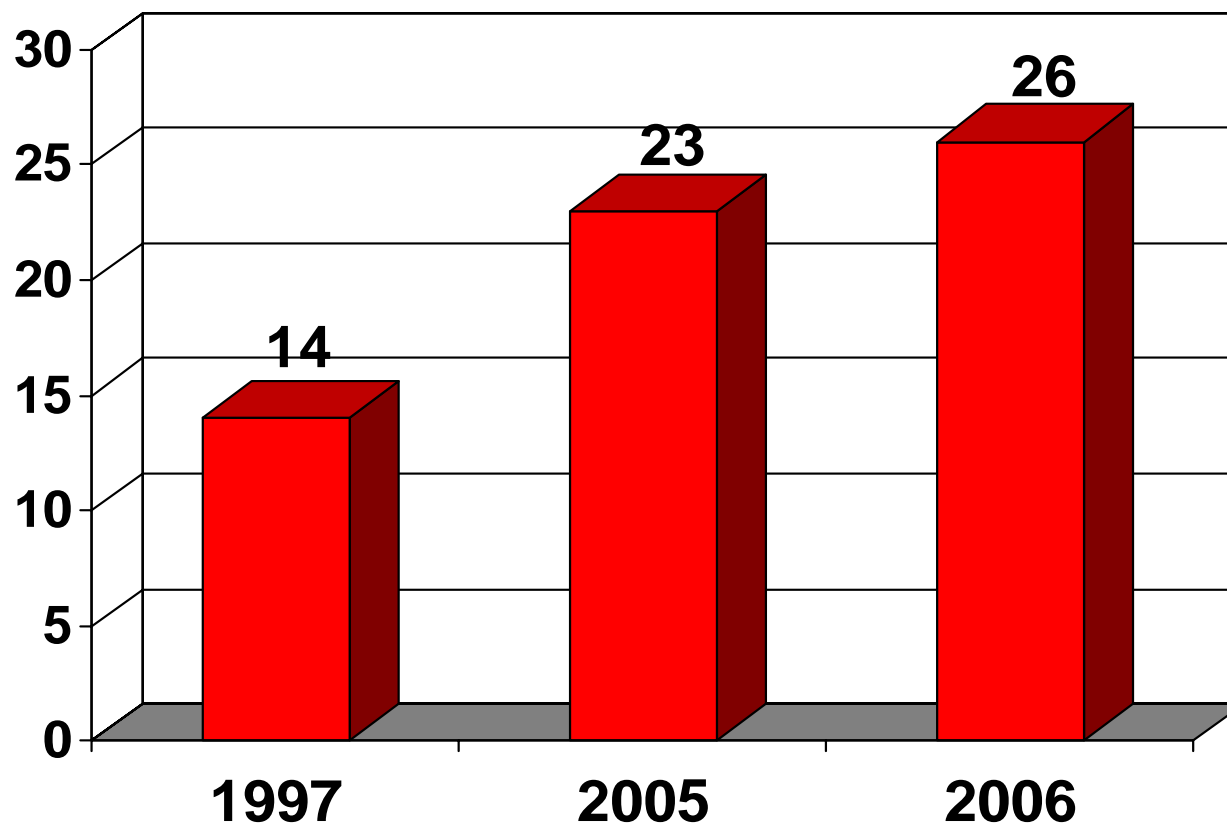




# NTSB **MOST WANTED**

Transportation Safety Improvements

## Primary Seat Belt Law Progress





# Enact Primary Seat Belt Enforcement Laws

## Proposed Action on this Issue Area

- Reclassify H-97-2 as proposed:
  - Closed–Acceptable Action for Alaska
  - Closed–Acceptable Alternate Action for 2 States (KY and NC)
  - Open–Acceptable Response for Mississippi
  - Open–Unacceptable Response for 2 States (ID and KS)
- Vote to keep *Enact Primary Seat Belt Enforcement Laws* on the Most Wanted List



# NTSB **MOST WANTED**

Transportation Safety Improvements



## Promote Youth Highway Safety



*"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."*



## Promote Youth Highway Safety

- From 1996 through 2005, nearly 64,000 young people aged 15-20 died in traffic crashes, more than 122 each week.
- In 2005, 7,460 young drivers ages 15-20 were involved in fatal crashes.
- In 2005, 3,467 young drivers were killed.

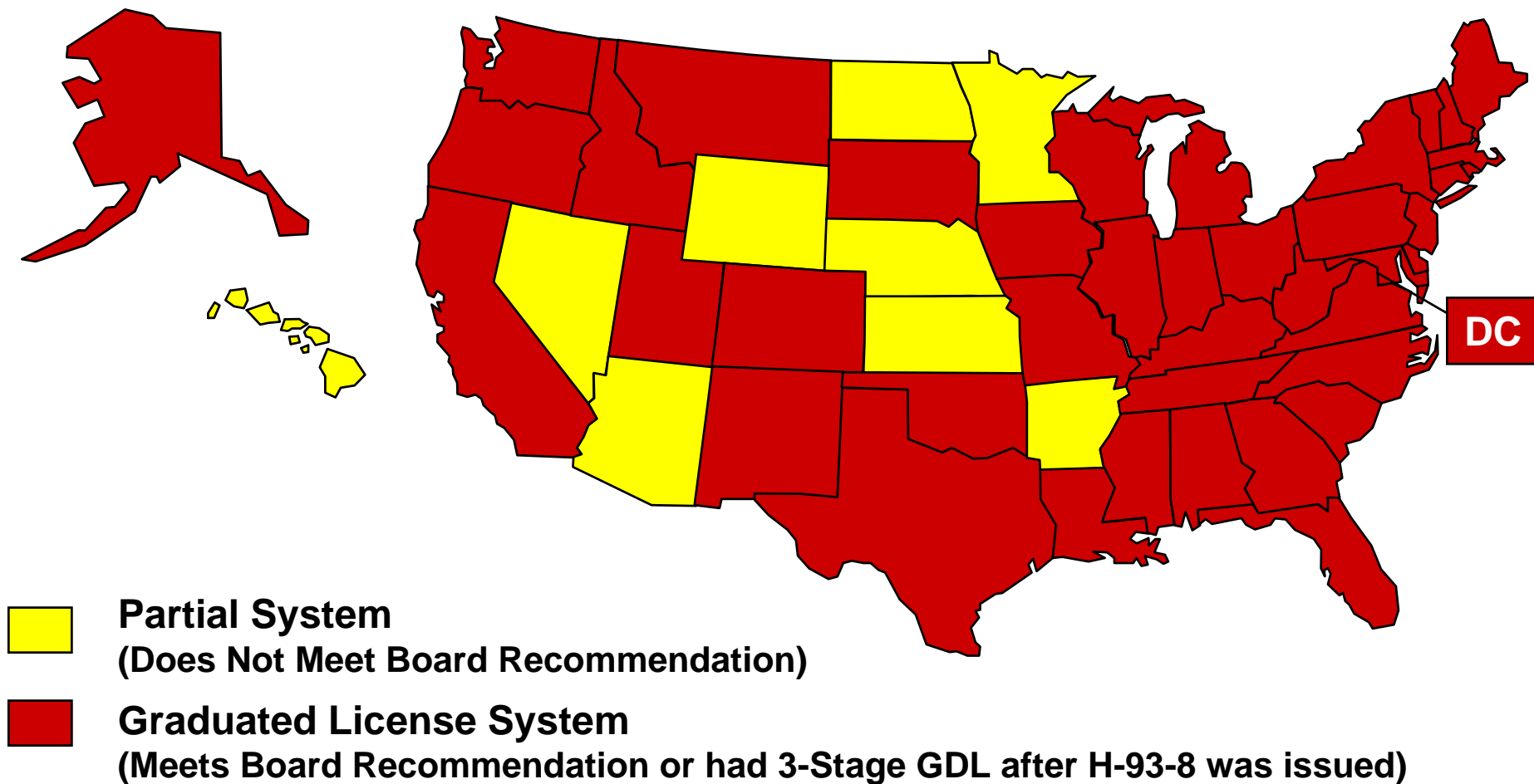




## Promote Youth Highway Safety

- Enact 3-stage graduated licensing laws with a passenger restriction  
H-02-32 (Issued to 14 States without either GDL or a passenger restriction)
- Restrict number of teen passengers  
H-02-30 (Issued to 29 States with GDL, but no passenger restriction)
- Restrict wireless communication device use by novice drivers  
H-03-08 (Issued to 48 States)

# Graduated Licensing Laws for Teen Drivers



September 2006



**No Restriction**

DC

This map shows the following states with no restrictions (red): Alaska, Arizona, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming.

The following states have restrictions (yellow): Hawaii, Montana, New York, North Carolina, South Carolina, and Virginia.

DC

## September 2006

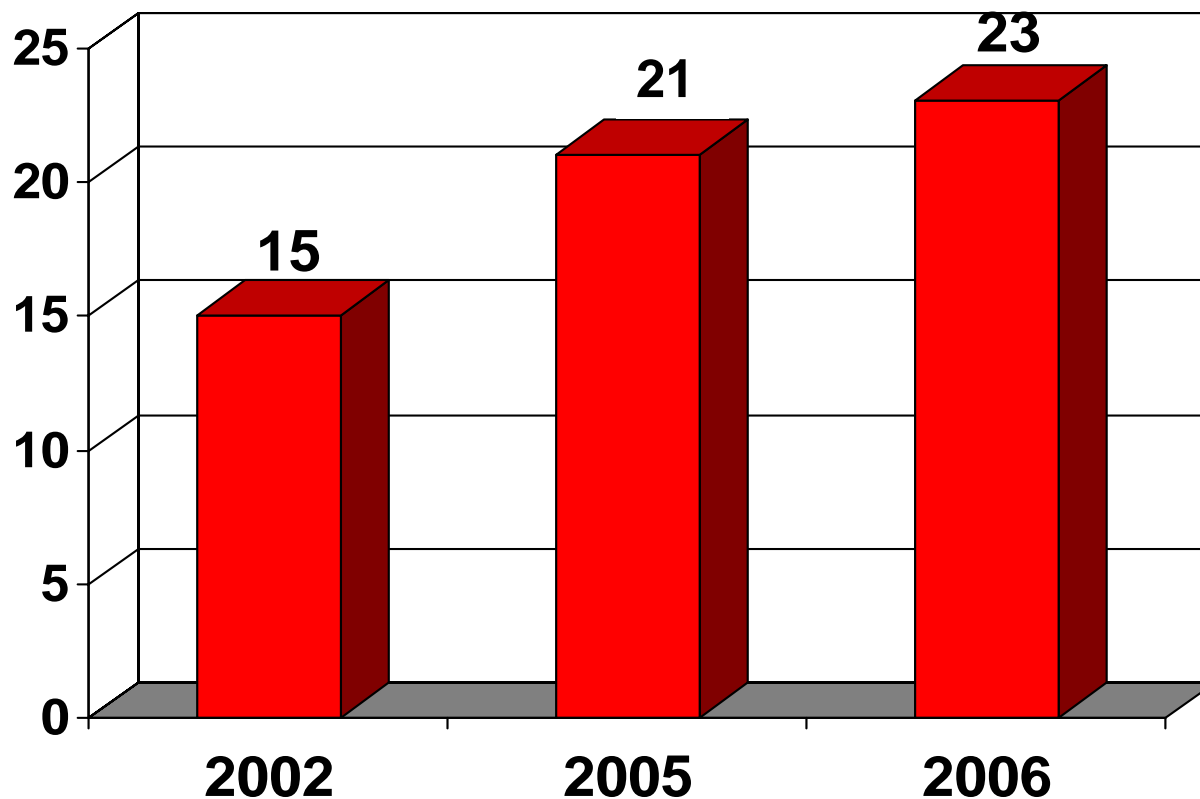
***“... a program to increase the public’s awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives.”***



# NTSB **MOST WANTED**

Transportation Safety Improvements

## Teen Passenger Restriction Law Progress

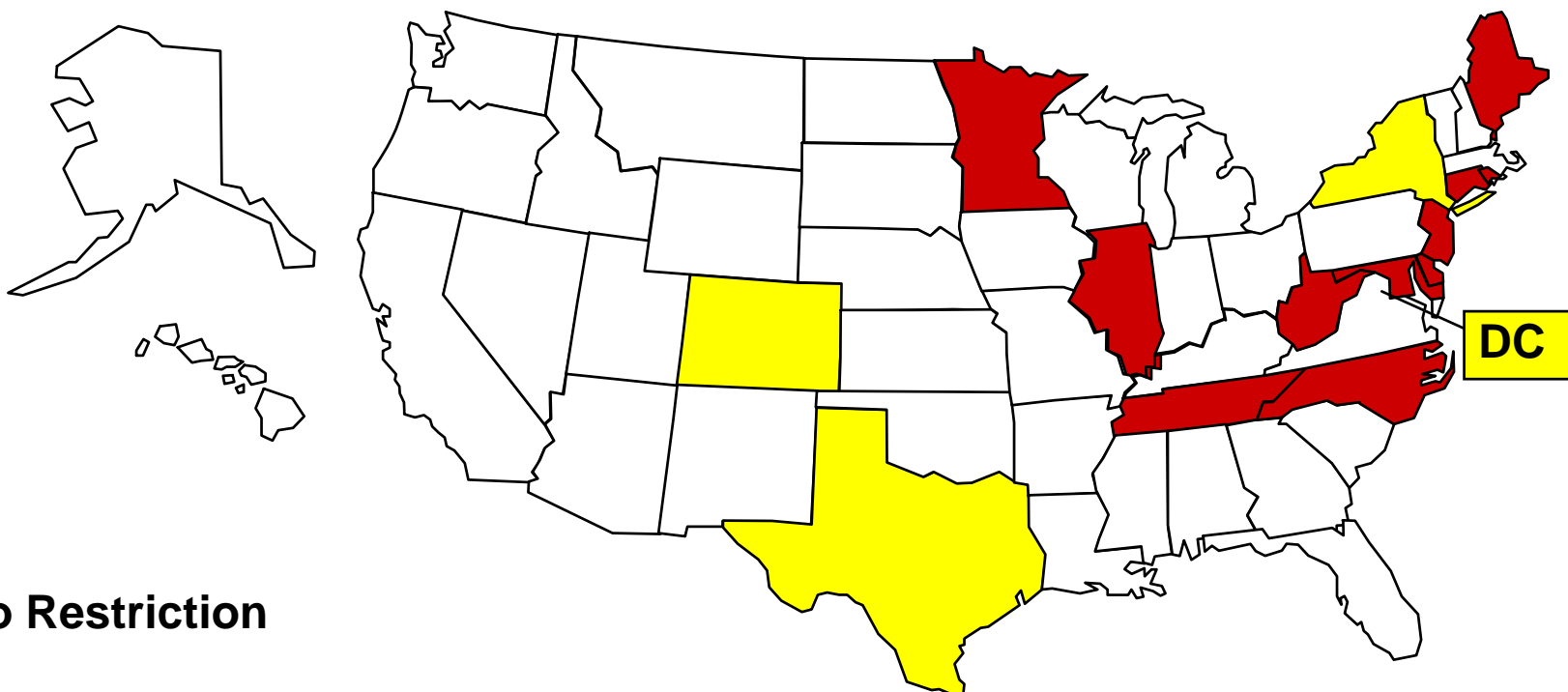




# NTSB **MOST WANTED**

Transportation Safety Improvements

## States With Interactive Wireless Communication Device (Cell Phone) Use Restrictions for Young Drivers



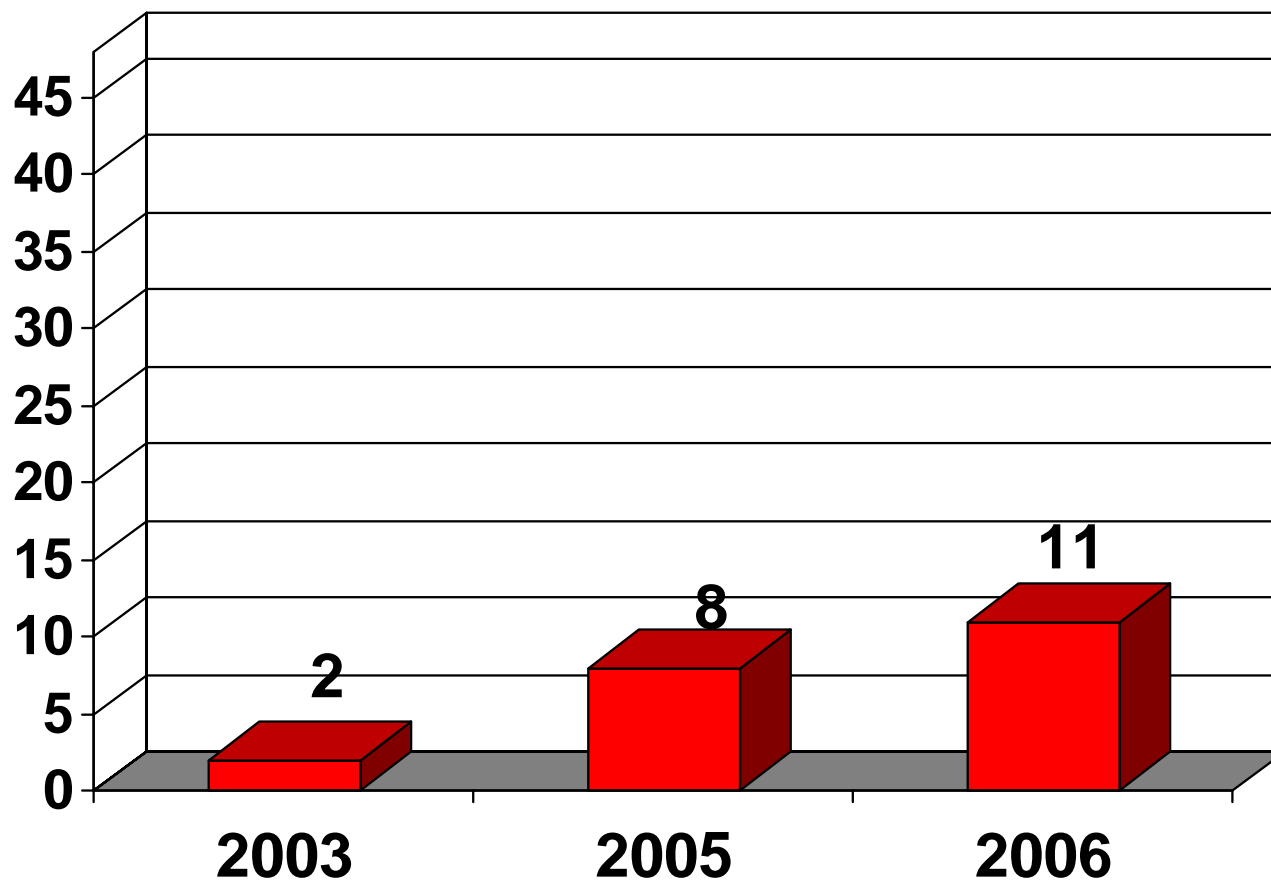
September 2006



# NTSB **MOST WANTED**

Transportation Safety Improvements

## Teen Cell Phone Restriction Law Progress





# Promote Youth Highway Safety

## Proposed Action on this Issue Area

- Reclassify H-02-30 as proposed:
  - Closed–Acceptable Action for Delaware
  - Closed–Acceptable Alternate Action for Missouri
  - Open–Acceptable Alternate Response for Iowa
  - Open–Unacceptable Response for 3 States (AL, LA and WV)

### Reclassify H-02-32 as proposed:

- Closed–Acceptable Action for 2 States (KY and UT)
- Closed–Acceptable Alternate Action for Connecticut
- Open–Acceptable Response for Nebraska
- Open–Acceptable Alternate Response for Kansas





# Promote Youth Highway Safety

## Proposed Action on this Issue Area

- Reclassify H-03-8 as proposed:
  - Closed–Acceptable Action for 3 States (NC, RI and WV)
  - Open–Acceptable Alternate Action for 7 States (FL, GA, IA, KY, NV, OK and SC)
  - Open–Unacceptable Response for 2 States (MO and UT)
- Vote to keep *Promote Youth Highway Safety* on Most Wanted list



# NTSB **MOST WANTED**

Transportation Safety Improvements



**Eliminate  
Hard Core  
Drinking Driving**



## Eliminate Hard Core Drinking Driving

### The Hard Core Drinking Driver

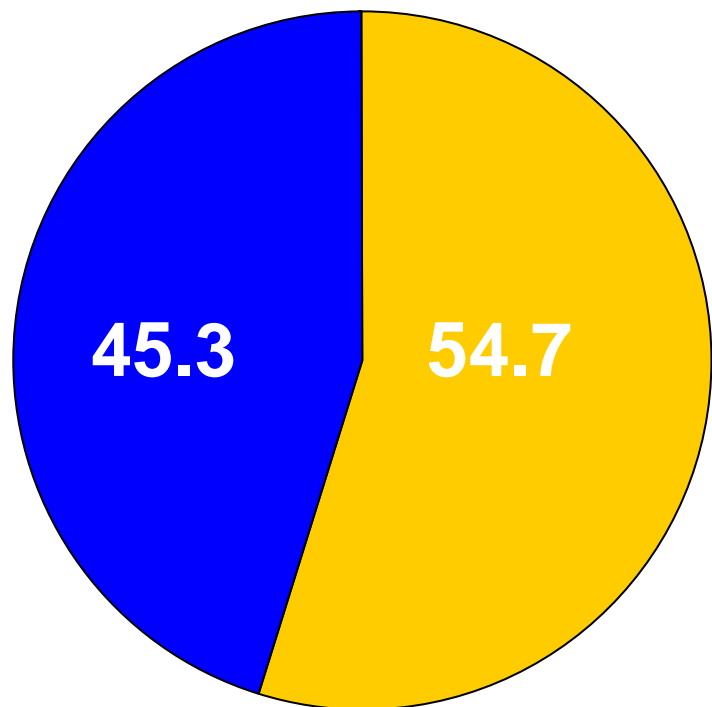
- Repeat offenders  
(more than one DWI arrest or conviction in the past 10 years)
- Offenders with a high Blood Alcohol Concentration  
(BAC of 0.15% or greater)



# NTSB **MOST WANTED**

Transportation Safety Improvements

## Alcohol-Related Fatalities in 2005



**16,885 Alcohol-Related Fatalities**

 **Hard core fatalities (9,236)**

 **Other alcohol-related fatalities**

*Source: NHTSA FARS Database*



## NTSB Model Program

### Primary Elements

- Sobriety Checkpoints (Element 1)
- Vehicle Sanctions (Element 2)
- 'Hot Sheet' Programs (Element 3)
- Zero BAC (Element 4)
- High BAC (Element 5)
- Diversion Elimination (Element 8)
- Administrative License Revocation (Element 9)



## NTSB Model Program

### Secondary Elements

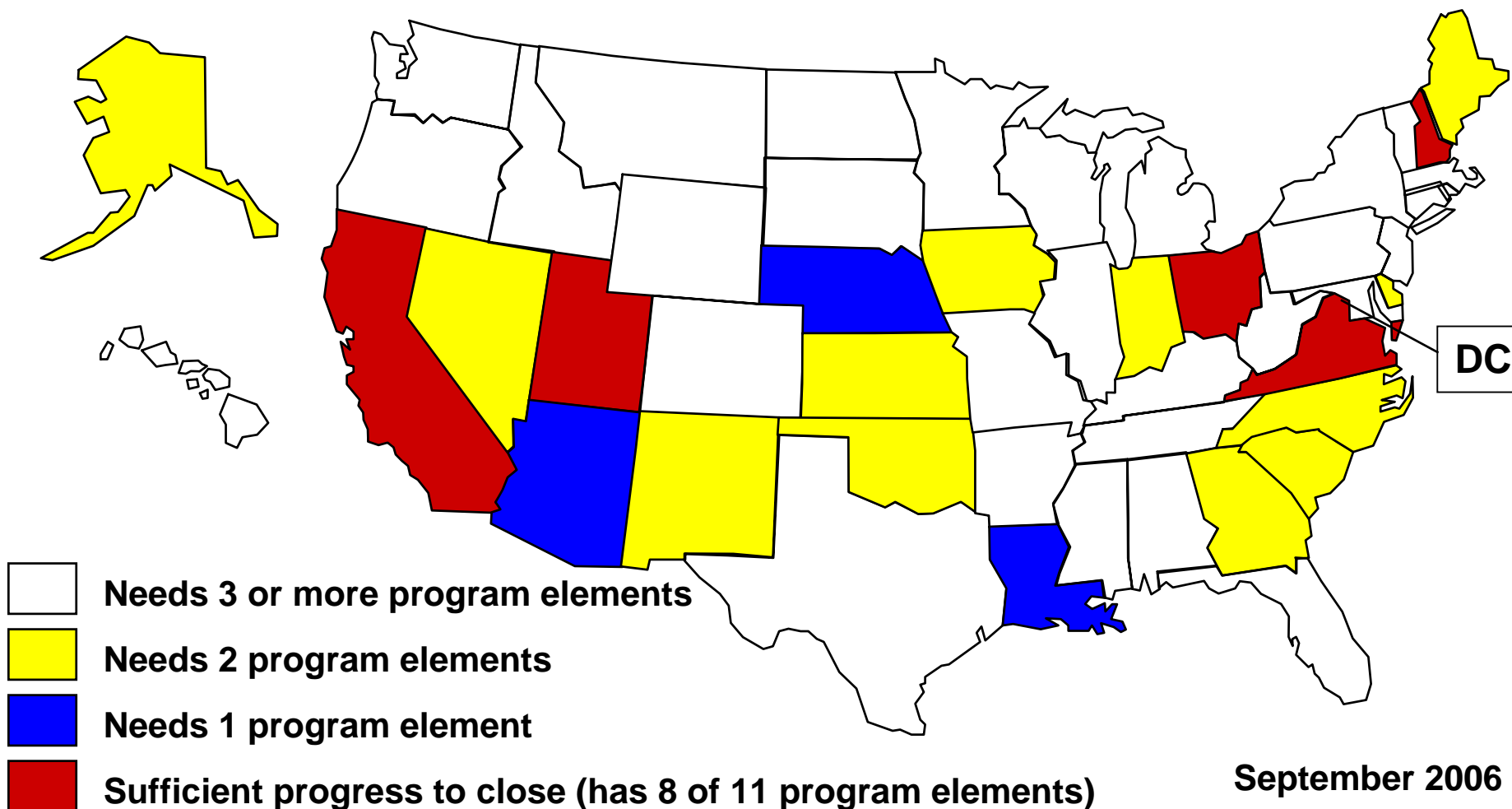
- Confinement Alternatives (Element 6)
- Plea-bargaining Restrictions (Element 7)
- Look-back Period (Element 10)
- Court-based Individualized Sanctions (Element 11)



# NTSB **MOST WANTED**

Transportation Safety Improvements

## Hard Core Drinking Driving Actions Remaining



"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."

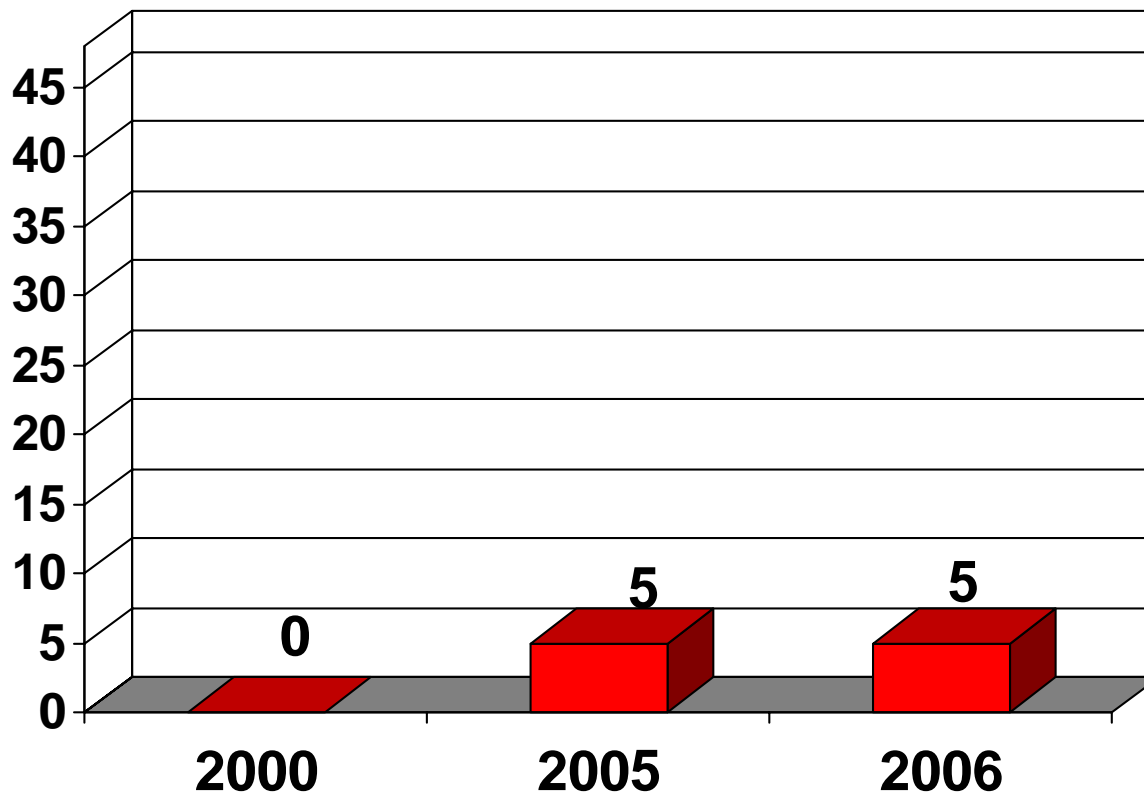




# NTSB **MOST WANTED**

Transportation Safety Improvements

## Hard Core Drinking Driver Law Progress





# Eliminate Hard Core Drinking Driving

## Proposed Action on this Issue Area

- Reclassify H-00-26 as proposed:
  - Open—Acceptable Alternate Action for 2 States (MD and MA)
  - Open—Unacceptable Response for 2 States (CT and TN)
- Vote to keep *Eliminate Hard Core Drinking Driving* on Most Wanted list



# NTSB **MOST WANTED**

Transportation Safety Improvements



## Improve School Bus Grade Crossing Safety

*"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."*



## Accident in Conasauga, Tennessee

- No stop signs or active warning devices
- Driver did not stop at grade crossing
- No driver evaluation
- Train horn inaudible
  - Doors and windows closed
  - Radio on





# NTSB **MOST WANTED**

Transportation Safety Improvements



*"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."*



## Improve School Bus/Grade Crossing Safety

- Install stop signs at passive crossings
- Upgrade passive crossings with active warning devices
- Install noise-reducing switches on new buses
- Enhance bus driver training and evaluation
- Include grade crossing questions in CDL exams



**Legend:**

- No passive crossings
- Partial (Needs 1 program element)

**Map Data:**

State	Category
Alaska	No passive crossings
Arizona	Partial (Needs 1 program element)
Arkansas	No passive crossings
California	Partial (Needs 1 program element)
Colorado	No passive crossings
Connecticut	No passive crossings
Delaware	No passive crossings
Florida	No passive crossings
Georgia	No passive crossings
Hawaii	No passive crossings
Idaho	No passive crossings
Illinois	No passive crossings
Indiana	No passive crossings
Iowa	Partial (Needs 1 program element)
Kansas	No passive crossings
Kentucky	No passive crossings
Louisiana	Partial (Needs 1 program element)
Maine	No passive crossings
Massachusetts	No passive crossings
Michigan	No passive crossings
Minnesota	No passive crossings
Mississippi	No passive crossings
Missouri	Partial (Needs 1 program element)
Montana	No passive crossings
Nebraska	No passive crossings
Nevada	No passive crossings
New Hampshire	No passive crossings
New Jersey	No passive crossings
New Mexico	No passive crossings
New York	Partial (Needs 1 program element)
North Carolina	No passive crossings
North Dakota	No passive crossings
Ohio	No passive crossings
Oklahoma	No passive crossings
Oregon	Partial (Needs 1 program element)
Pennsylvania	No passive crossings
Rhode Island	No passive crossings
South Carolina	No passive crossings
South Dakota	No passive crossings
Tennessee	Partial (Needs 1 program element)
Texas	No passive crossings
Vermont	No passive crossings
Virginia	No passive crossings
Washington	No passive crossings
West Virginia	No passive crossings
Wisconsin	No passive crossings
Wyoming	No passive crossings
D.C.	No passive crossings

## No passive crossings

### Partial (Needs 1 program element)

### Minimal progress (Has only 0 or 1 program element)

**Sufficient progress to close (Has 3 of 5 program elements)**

## September 2006

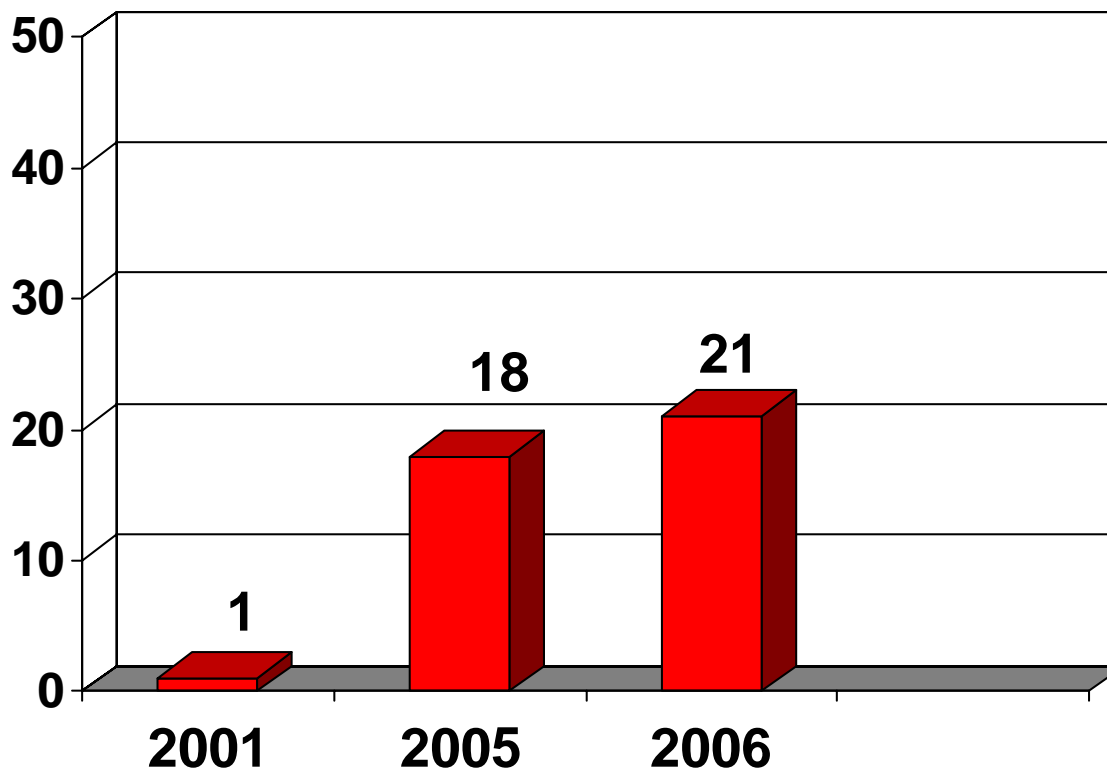
***“... a program to increase the public’s awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives.”***



# NTSB **MOST WANTED**

Transportation Safety Improvements

## School Bus/Grade Crossing Safety Progress – States with 3 of 5 Recommended Elements







# Improve School Bus/Grade Crossing Safety

## Proposed Action on this Issue Area

- Reclassify H-01-38 as proposed:
  - Closed–Acceptable Alternate Action for 3 States (DE, MI and WV)
  - Open-Acceptable Response for Colorado

Vote to keep *Improve School Bus/Grade Crossing Safety* on Most Wanted List



# NTSB **MOST WANTED**

Transportation Safety Improvements



## Enhance Recreational Boating Safety



*"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."*



## Enhance Recreational Boating Safety

- 12,942,414 registered boats
- 4,994 accidents reported
- 697 fatalities
- 3,474 injuries



Source: U.S. Coast Guard, 2005 data



# **NTSB MOST WANTED**

Transportation Safety Improvements

## **Most Wanted Recreational Boating Safety Recommendations**

### **M-93-1**

- **PFD use by children**
- **Boat operator education**
- **Boat operator licensing**

### **M-98-101**

- **Training for PWC renters**



Map of the United States showing PFD laws by state. Legend:

- No Law
- PFD Law (Under Age 12)
- PFD Law (Age 12 and Under)<sup>1</sup>

## No Law

## PFD Law (Under Age 12)

## PFD Law (Age 12 and Under)<sup>1</sup>

## Law Applies Only to Concurrent Federal/State Waters

## <sup>1</sup> Idaho Law Applies to Age 14 and Under

## September 2006

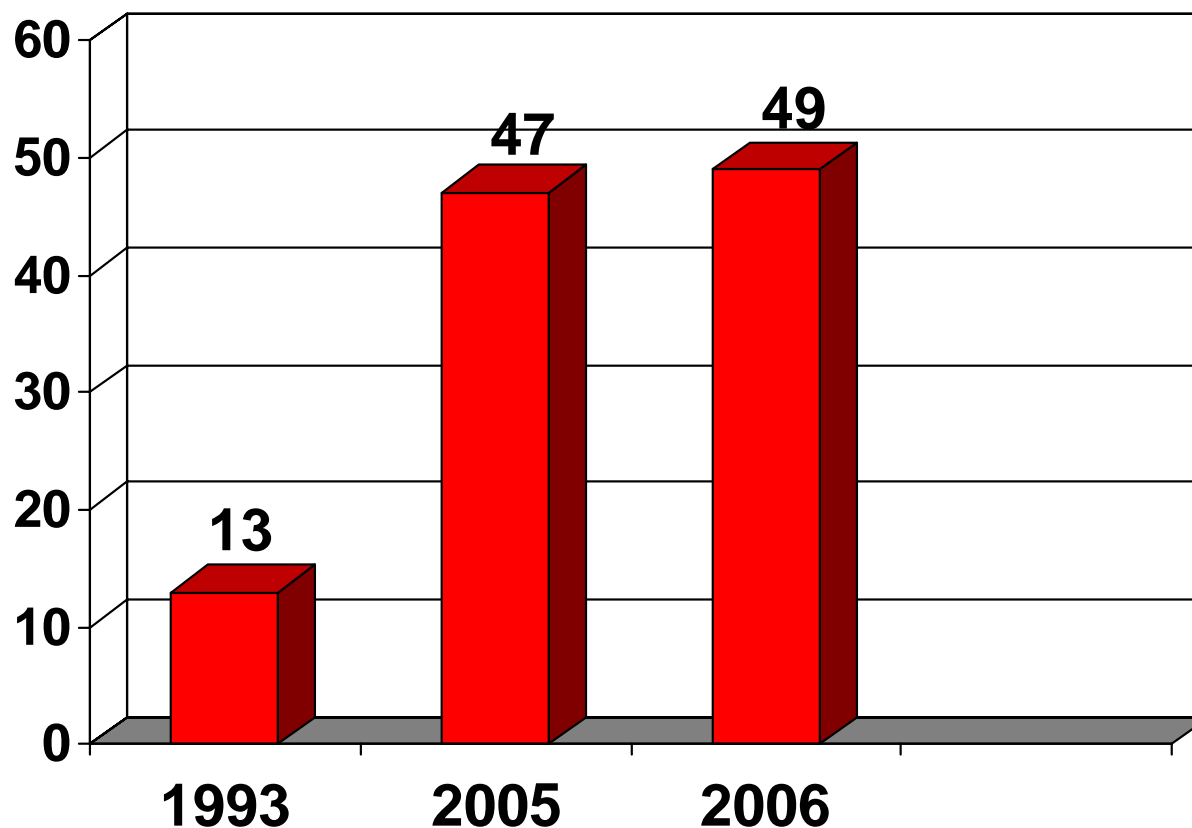
***“... a program to increase the public’s awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives.”***



# NTSB **MOST WANTED**

Transportation Safety Improvements

## Child PFD Use Law Progress



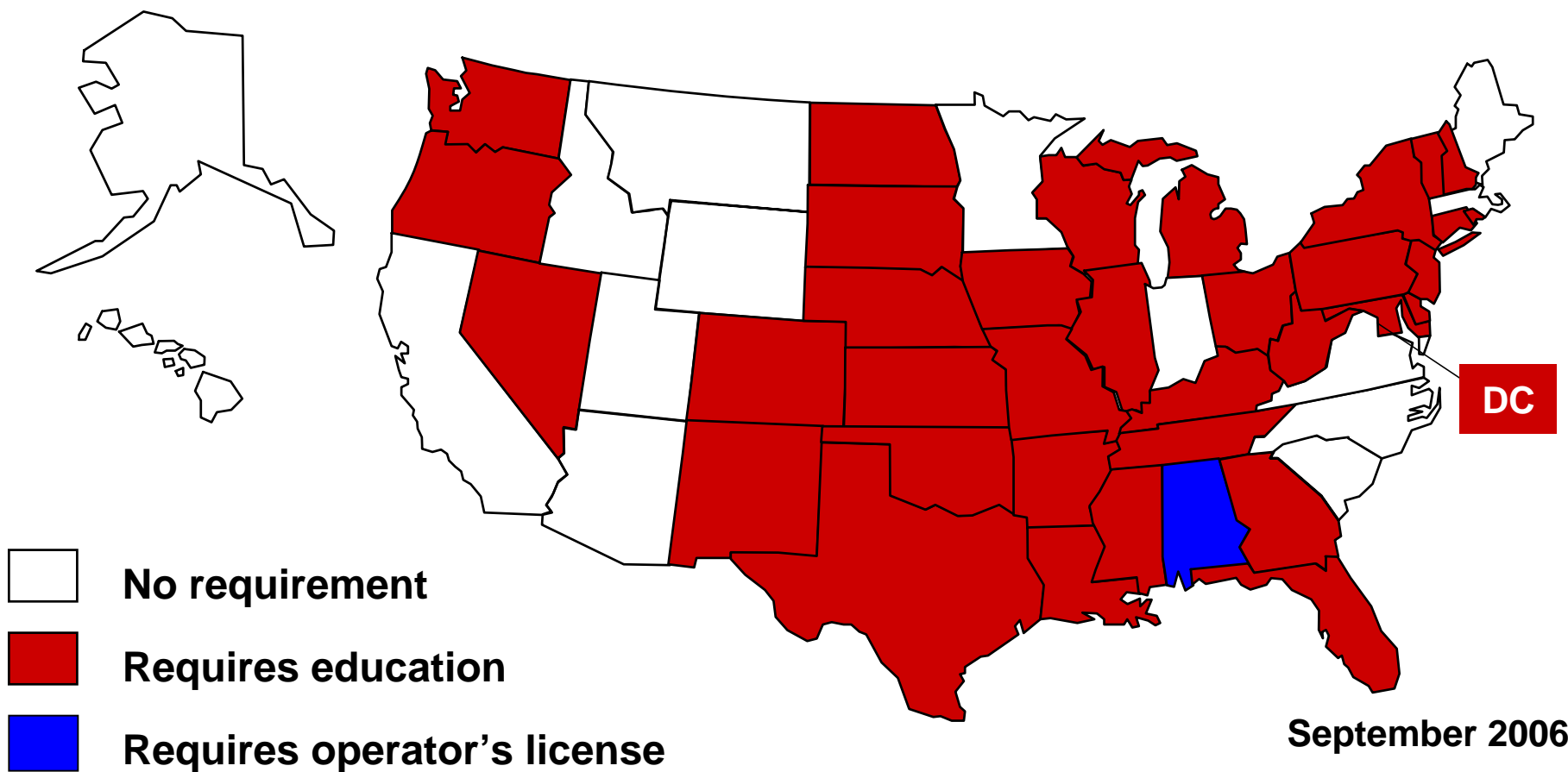
*"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."*



# NTSB **MOST WANTED**

Transportation Safety Improvements

## Boat Operator Knowledge

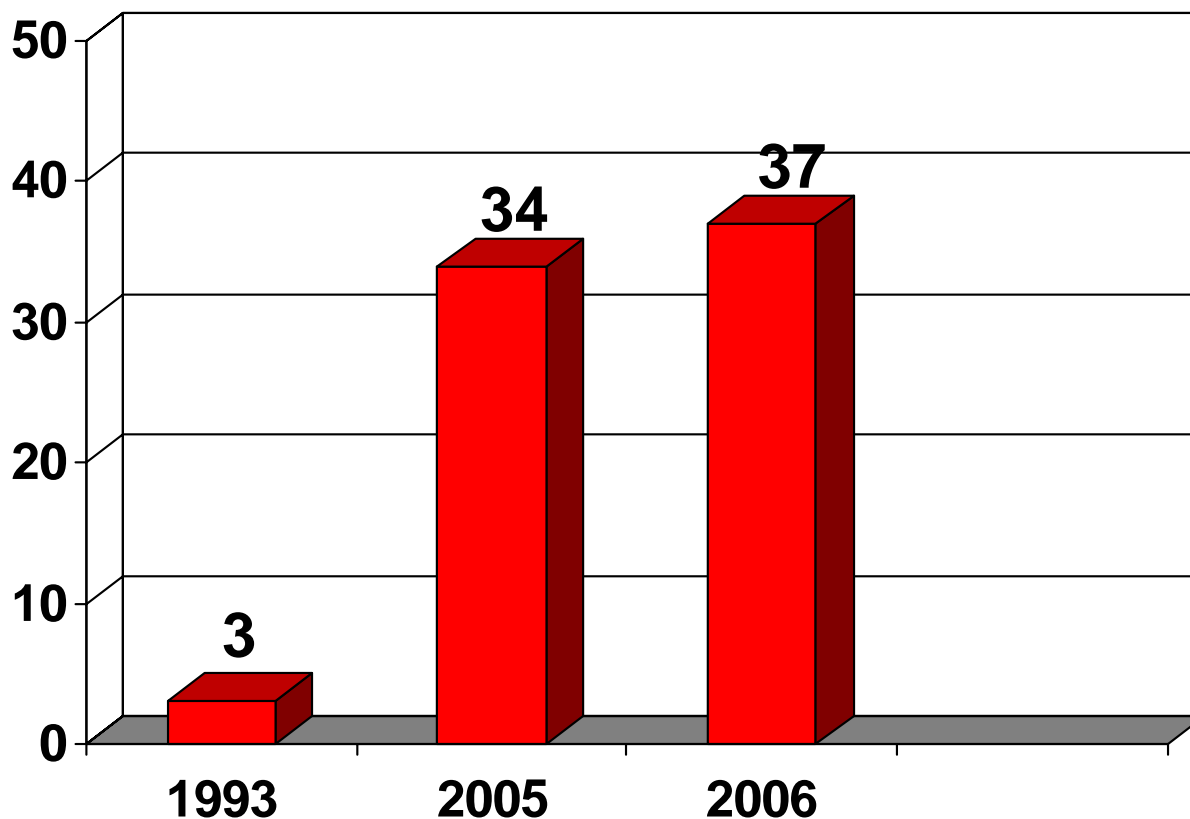




# NTSB **MOST WANTED**

Transportation Safety Improvements

## Mandatory Boater Education Law Progress



*"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."*

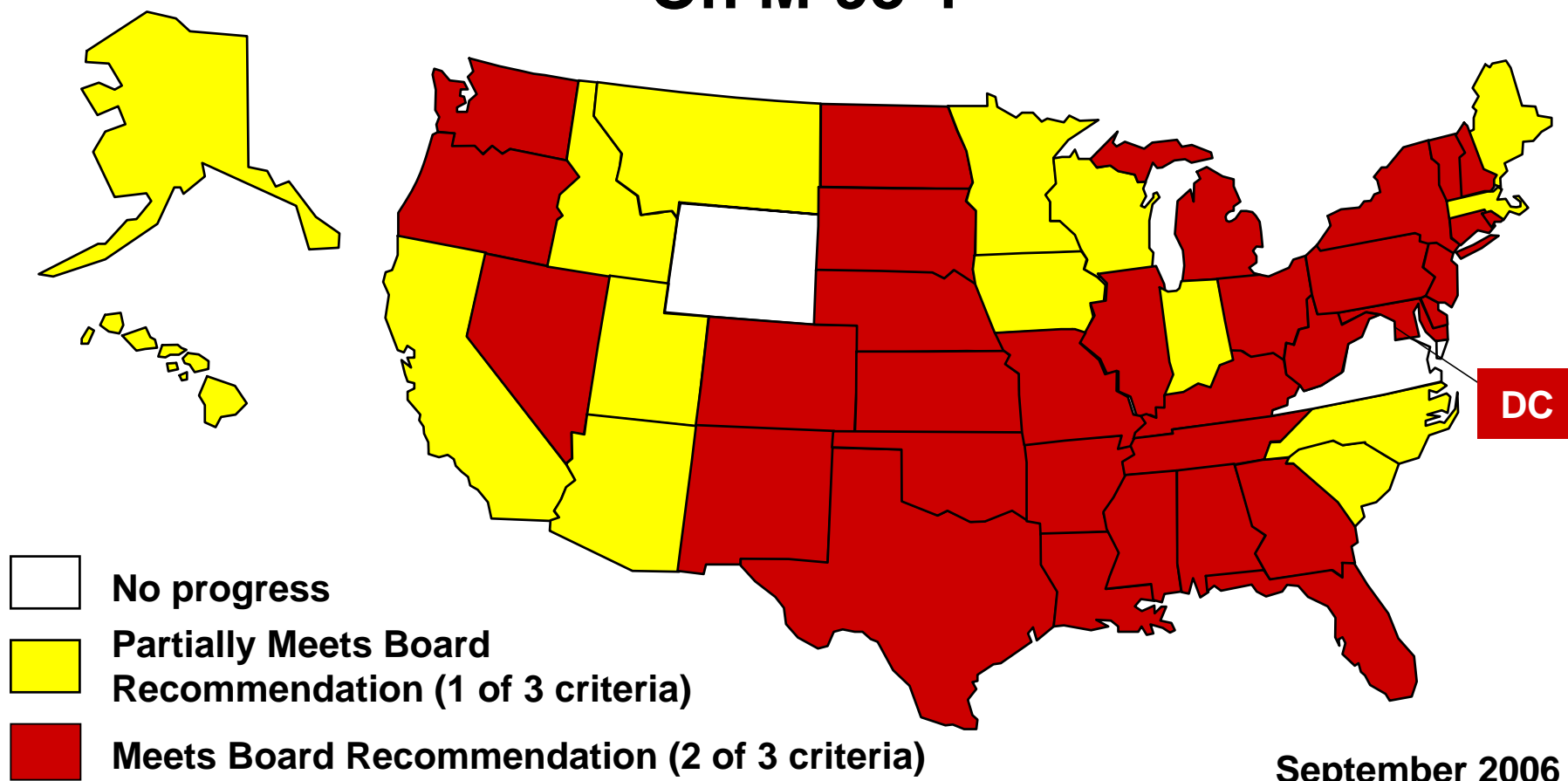




# NTSB **MOST WANTED**

Transportation Safety Improvements

## Boating Safety State Overall Progress On M-93-1

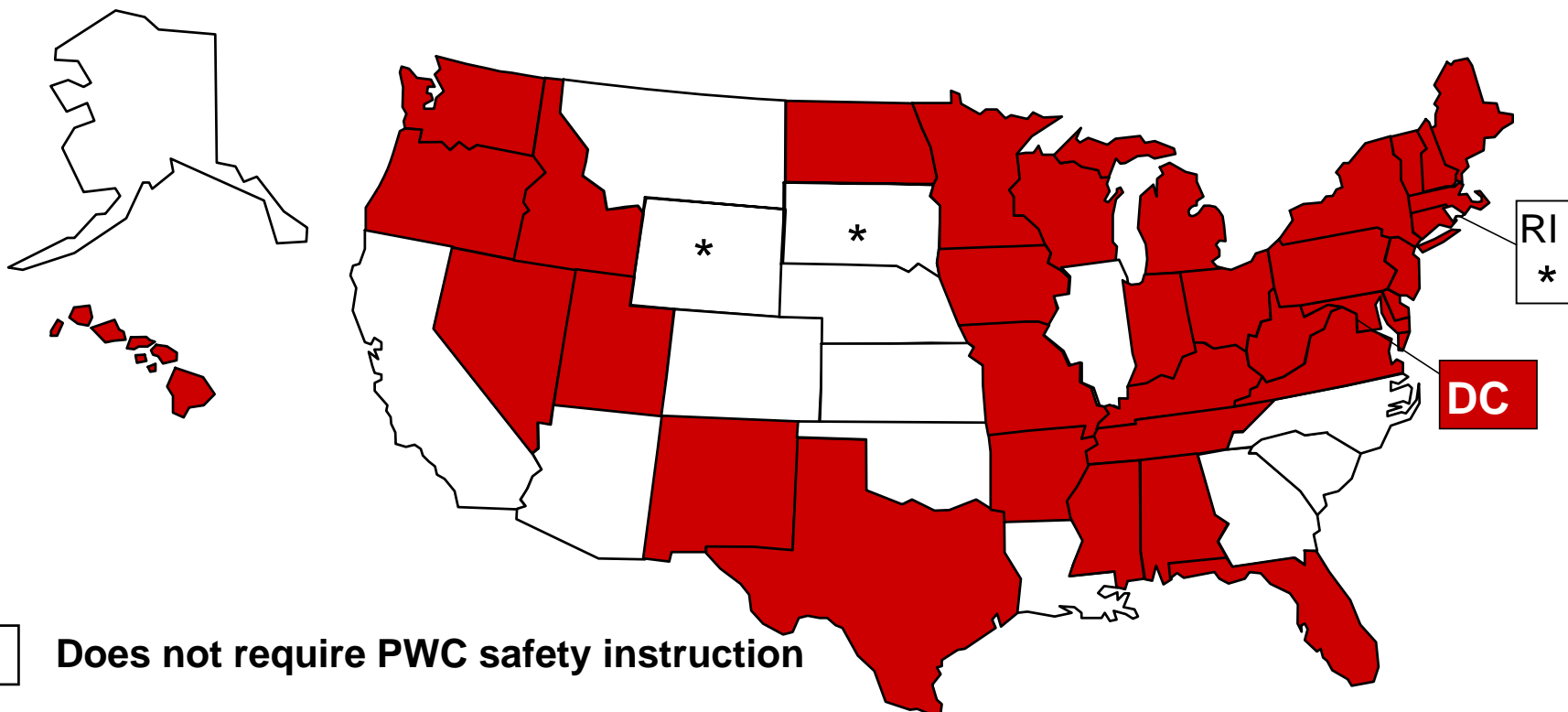




# NTSB **MOST WANTED**

Transportation Safety Improvements

## Pre-Rental Instruction for PWC Operators



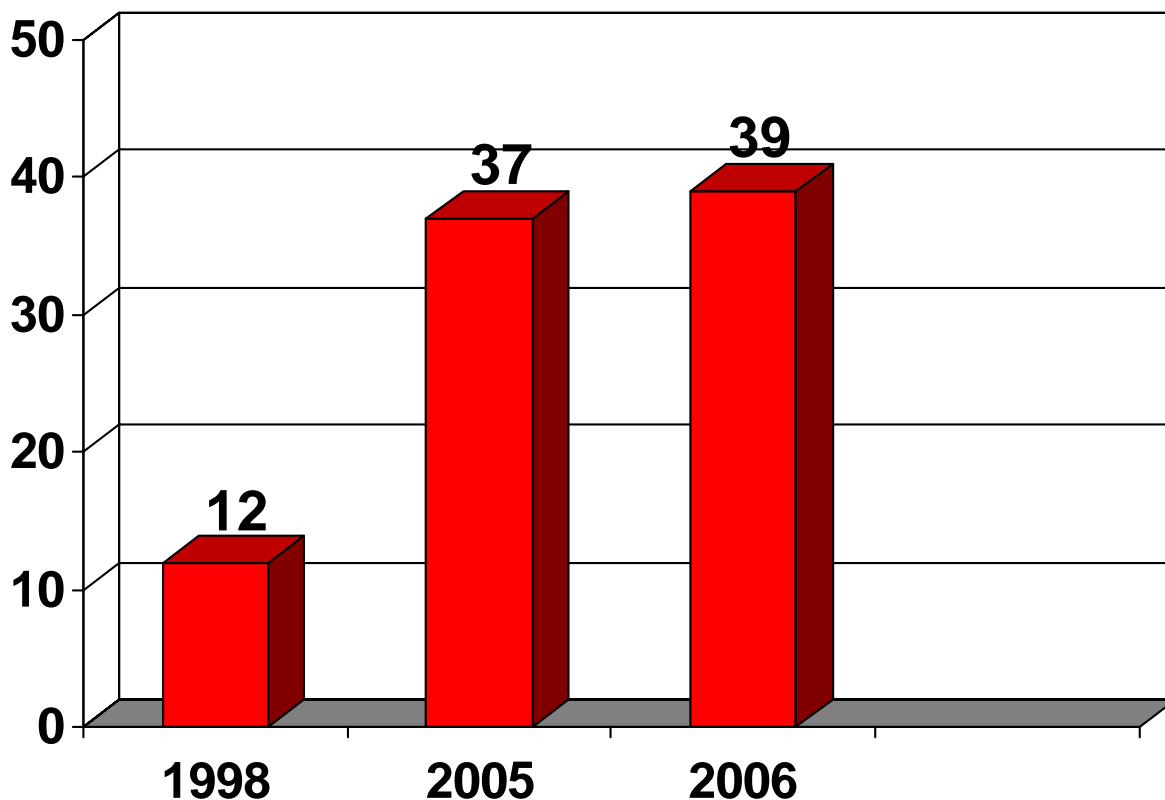
September 2006



# NTSB **MOST WANTED**

Transportation Safety Improvements

## PWC Rental Education Requirement





## Enhance Recreational Boating Safety

### Proposed Action on this Issue Area

- Reclassify M-93-1 as proposed:
  - Closed-Acceptable Action for 2 States (NM and OK) and U.S. Virgin Islands
  - Open-Acceptable Alternate Response for Virginia



# Enhance Recreational Boating Safety

## Proposed Action on this Issue Area

- Reclassify M-98-101 as proposed:
  - Closed-Acceptable Action for New Mexico and U.S. Virgin Islands
  - Open-Acceptable Response for California
- Vote to keep *Enhance Recreational Boating Safety* on Most Wanted List.



# NTSB MOST WANTED

Transportation Safety Improvements

## Vote to adopt the report

### Actions needed by States

#### HIGHWAY

##### Improve Child Occupant Protection

- Enact State laws requiring booster seats for young children.

##### Enact Primary Seat Belt Enforcement Laws

- Increase the number of people who wear seat belts through stronger enforcement laws.

##### Promote Youth Highway Safety

- Enact graduated driver licensing legislation.
- Restrict the number of teen passengers traveling with young novice drivers.
- Prohibit use of wireless communications devices by young novice drivers.

##### Eliminate Hard Core Drinking Driving

- Enact State legislation and take other actions that are proven to reduce crashes involving those who repeatedly drink large amounts of alcohol and drive including:
  - Frequent, statewide sobriety checkpoints.
  - Legislation to create stricter sanctions for those arrested the first time with a high blood alcohol concentration ( $\geq 0.15$  BAC).
  - Zero blood alcohol requirement for convicted DWI offenders when they get their license back.
  - Administrative rather than court-based license revocation for refusing to take or failing the sobriety test.
  - Vehicle sanctions for DWI offenders.
  - Eliminate plea-bargaining DWI offenses and programs that divert offenders and purge the offense record.
  - Retain DWI offense records (to identify and prosecute repeat offenders) for at least 10 years.
  - Develop and operate special sanction (court-based) programs for hard core DWI offenders.

##### Improve School Bus/Grade Crossing Safety

- Install stop signs at passive crossings.
- Prioritize for upgrade to lights and gates, crossings that school buses traverse that now only have warning signs.
- Install noise-reducing switches on new buses.
- Enhance bus driver training and evaluation.
- Include grade crossing questions on CDL exams.

#### MARINE

##### Enhance Recreational Boating Safety

- Require mandatory education of boat operators.
- Require use of life jackets by children.
- Require safety instruction prior to personal watercraft rental.

November 2005



## NTSB MOST WANTED

Transportation Safety Improvements

# 2006

*Critical changes needed to reduce transportation accidents and save lives.*

*"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."*